



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
Division Of Highways

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Charleston, West Virginia 25305-0440 • 304/558-3505

Bob Wise
Governor

Fred VanKirk, P. E.
Secretary/Commissioner

April 11, 2001

Jack White
Assistant Commissioner

MEMORANDUM

TO: All Designers

FROM: DT (Barry Warhoftig)

SUBJECT: Traffic Signal Loop Detectors

All proposed projects that may affect an existing traffic signal installation must include in the contract plans bid items for repair or replacement of damaged vehicle detection devices. The designer shall show on the plans all in-road detectors (loops) and their related junction boxes and shall number the boxes and loops individually. Each loop and box shall be bid individually as: Bid Item 660005-*, ADJUST JUNCTION BOX, BOX NUMBER "number", and Bid item 660007-*, MISCELLANEOUS SIGNAL LOOP NUMBER "number".

The designer shall also bid item 662015-* ELECTRICAL TEST.

Attached is a copy of a specification to use on these projects.

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

SPECIAL PROVISION

FOR

STATE PROJECT _____

FEDERAL PROJECT _____

FOR

SECTION 660

IN PAVEMENT TRAFFIC LOOPS

ADD THE FOLLOWING:

660.9 – LOOP TRAFFIC DETECTORS

The Contractor shall be responsible for replacement of damaged loops and lead-in cable to the existing splice box or otherwise designated junction box.

The Contractor shall be responsible for replacing all damaged traffic signal loops within the construction limits within fourteen (14) calendar days of when damage occurs.

Standard (6 foot x 6 foot) detector loops shall consist of three (3) turns of stranded #14 AWG copper wire, with Quadrupole presence loops consisting of two (2) turns of stranded #14 AWG copper wire meeting IMSA conductor specifications. All detector loops shall conform to WVDOH Standards and Specifications 715.42.5.2 and 715.42.13.

ADD THE FOLLOWING:

660.15 - JUNCTION BOXES

The Contractor shall be responsible for reconstruction and/or replacement of all damaged junction boxes. Damaged junction boxes shall be defined as any junction box more than two (2) inches below grade, or is covered by the area roadway surface.

The adjustment of the junction box shall include the complete excavation and shall conform to WVDOH Standards and Specifications Section 660.8 and 660.15. All conduit, cable and attached appurtenances shall be incidental to this junction box.

The adjustment of the junction box shall be as per detail and shall conform to WVDOH Standards and Specifications Section 660.8 and 660.15.

660.21 - PAY ITEM:

ITEM	DESCRIPTION	UNIT
660005-*	ADJUST JUNCTION BOX, BOX NUMBER "number",	EACH
660007-*	MISCELLANEOUS SIGNAL LOOP NUMBER "number",	LUMP SUM.

* Sequence number